

CLAIMS

Now, therefore, the following is claimed:

1 1. A system for supporting wireless communication equipment, comprising:
 2 a foundation;
 3 a guyed tower fixedly attached to said foundation; and
 4 a pole tower fixedly attached to said foundation and extending through a middle region
 5 of said guyed tower.

1 2. The system of claim 1, wherein said pole tower is separated from an inner
 2 periphery of said guyed tower by about one-quarter of an inch.

1 3. The system of claim 1, wherein said pole tower is fixedly attached to said
 2 guyed tower.

1 4. The system of claim 1, further comprising communication equipment attached
 2 to said pole tower.

1 5. The system of claim 1, wherein said pole tower is sectional.

1 6. The system of claim 1, wherein said pole tower is hollow.

1 7. The system of claim 1, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said pole tower is fixedly attached to said guyed
3 tower at a midpoint of one of said sections.

1 8. The system of claim 1, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said pole tower is fixedly attached to said guyed
3 tower at an interface between said guyed tower sections.

1 9. The system of claim 1, wherein said guyed tower has a bottom end and a top
2 end opposite of said bottom end, said bottom end fixedly attached to said foundation, and
3 wherein said pole tower extends from said foundation to said top end of said guyed tower.

1 10. The system of claim 9, wherein said top end of said pole tower extends through
2 said top end of said guyed tower, said top end of said pole tower having communication
3 equipment mounted thereto at a point above said top end of said guyed tower.

1 11. A system for supporting wireless transmission equipment, comprising:
2 a foundation;
3 a guyed tower fixedly attached to said foundation; and
4 a means for absorbing bending moments that act on said guyed tower, said absorbing
5 means fixedly attached to said foundation and extending through a middle region of said
6 guyed tower.

1 12. The system of claim 11, wherein said absorbing means is separated from an
2 inner periphery of said guyed tower by about one-quarter of an inch.

1 13. The system of claim 11, wherein said absorbing means is fixedly attached to
2 said guyed tower.

1 14. The system of claim 11, further comprising communication equipment
2 attached to said absorbing means.

1 15. The system of claim 11, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said absorbing means is fixedly attached to said
3 guyed tower at a midpoint of one of said sections.

1 16. The system of claim 11, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said absorbing means is fixedly attached to said
3 guyed tower at an interface between said guyed tower sections.

1 17. The system of claim 11, wherein said guyed tower has a bottom end and a top
2 end opposite of said bottom end, said bottom end fixedly attached to said foundation, and
3 wherein said absorbing means extends from said foundation to said top end of said guyed
4 tower.

1 18. The system of claim 17, wherein said absorbing means extends through said
2 top end of said guyed tower, said absorbing means having communication equipment
3 mounted thereto at a point above said top end of said guyed tower.

1 19. A method for supporting wireless communication equipment, comprising the
2 steps of:

3 erecting a guyed tower;
4 fixedly attaching said guyed tower to a foundation;
5 erecting a pole tower within a middle region of said guyed tower; and
6 fixedly attaching said pole tower to said foundation.

1 20. A method for increasing a load capacity of a guyed tower, said guyed tower
2 fixedly attached to a foundation, comprising the steps of:

3 erecting a pole tower within a middle region of said guyed tower; and
4 fixedly attaching said pole tower to said foundation.

1 21. The method of claim 20, further comprising the step of:
2 fixedly attaching said pole tower to said guyed tower.

1 22. The method of claim 20, further comprising the step of:
2 attaching communication equipment to said pole tower.

1 23. The method of claim 20, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said method further comprises the step of:
3 fixedly attaching said pole tower to said guyed tower at a midpoint of one of said
4 sections.

1 24. The method of claim 20, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said method further comprises the step of:
3 fixedly attaching said pole tower to said guyed tower at an interface between said
4 guyed tower sections.

1 25. The method of claim 20, wherein said guyed tower has a bottom end and a top
2 end opposite of said bottom end, said bottom end fixedly attached to said foundation, and
3 wherein said erected pole tower extends from said foundation to said top end of said guyed
4 tower.

1 26. The method of claim 25, wherein said erected pole tower extends through said
2 top end of said guyed tower, said method further comprising the step of:
3 attaching communication equipment to said erected pole tower at a point above said
4 top end of said guyed tower.

1 27. The method of claim 20, wherein said pole tower is sectional, wherein said
2 guyed tower has a bottom end and a top end opposite of said bottom end, said bottom end
3 fixedly attached to said foundation, and wherein said erecting step includes the steps of:

4 lowering a bottom section of said pole tower from said top end through said guyed
5 tower to said foundation;

6 lowering another section of said pole tower from said top end through said guyed
7 tower to said bottom section; and

8 securing said bottom section to said other section.

1 28. The method of claim 27, wherein said securing step includes the step of
2 inserting a portion of said bottom section into a hollow region of said other section.